

ABSTRACT OF THE DISCLOSURE

The invention includes compositions, kits and methods comprising a monoclonal antibody which shares key functional properties with the polyclonal antibodies which participate in the pathogenesis of heparin induced thrombocytopenia/thrombosis (HIT/HITT) in a mammal. The monoclonal antibody of the invention preferentially binds with a PF4/heparin complex relative to the binding of the antibody with PF4 or heparin alone. The monoclonal antibody of the invention also binds specifically with PF4 in a complex with other glycosaminoglycans besides heparin, and also activates platelets. The monoclonal antibody of the invention is useful in methods for diagnosing and treating HIT/HITT in a mammal. A humanized version of the monoclonal antibody of the invention is also included, along with a process for humanizing the monoclonal antibody of the invention.

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